THE DER WEEKLY

www.eren.doe.gov/der

Volume 3, Number 1

January 11, 2002

Distributed Energy Resources...the Power of Choice

Industry News

DCH Hydrogen Sensor Tested

DCH Technology, Inc., a manufacturer of hydrogen sensors and fuel cells, announced on December 21 that its DCH H2SCANTM Sensor System passed the MIL-STD-810C specification that allows the system to be used in military applications worldwide. The specification required testing for vibration, mechanical stock, temperature shock and cycle, and humidity soak. John Donohue, DCH President and CEO, said in regards to the testing that "passing this specification is a key milestone in our sensor's sales strategy...as we incorporate this validation into our marketing efforts, we believe it will open new doors for us" The specification was determined by National Technical Systems, an independent U.S. testing facility.

DCH Technology, Inc., Press Release, December 21

Verizon Launches Fuel Cell Demo

On December 18 Verizon, along with Nuvera Fuel Cells, Massachusetts Technology Collaborative, Technology Corporation, and KeySpan Energy Delivery New England, launched a fuel cell demonstration project at one of its facilities. The demonstration is Phase 2 of a joint effort between Nuvera and Verizon to develop, test, and evaluate fuel cell systems in the 5kW range. The fuel cell, which runs on hydrogen converted from natural gas, will be used to provide primary power to the Verizon facility for 500 hours. Massachusetts Governor Jane Swift stated at the event that "this...demonstration project helps shine a light on the important work being done in Massachusetts in the area of renewable energy and technology...making our environment cleaner, and increasing the nation's energy self-sufficiency." Funds from the Massachusetts Renewable Energy Trust Fund support the project.

Energy Info Source, December 18

DG Energy Management Software

DTE Energy Technologies, an unregulated subsidiary of

DTE Energy Co., and Silicon Energy, a leading provider of enterprise energy management technology, are offering commercial and industrial customers a smarter way of managing distributed generation resources, through the implementation of DTE Energy Technologies energy|nowTM System Operations Center (SOC). DTE Energy Technologies established the energy now SOC to manage, monitor, and control distributed generation resources. Energy|now SOC combines technology, expertise, experience, and service to optimize distributed generation based on a customer's energy needs. The Silicon Energy software platform provides a robust information management system that combines a realtime knowledge database, monitoring and control capability, and data warehousing for demand and supplydistributed energy resource technologies.

Utility Requests 12 Microturbines

The East Bay Municipal Utility District will use a \$1.9 million state loan to reduce its electricity costs and reliance on the power grid. The California Energy Commission has approved the Oakland-based utility's request for money to install twelve, 60-kilowatt natural gas fired microturbines at its administration center and a 30-kW photovoltaic solar system on the roof of its operations center. The water district expects the new power generators to reduce energy costs by at least \$431,000, based on new Pacific Gas and Electric Co. rate schedules. The solar project qualifies for a 50 percent PG&E rebate and will further reduce energy bills by (Continued on page 2)

What's on the Web

Fuel Cells 2000 has a Match Maker News Group located on its web site at www.fuelcells.org/mm.htm for the purpose of matching technology and ideas with people interested in demonstrations, pilot projects, commercial applications, and financial resources.

FUEL CELLS 2000

Conference Reminder

The 2nd Annual Workshop on Microturbine Applications will be held on January 17-18, 2002, at the University of Maryland, organized by the U.S. Department of Energy and Natural Resources Canada*.

30 presentations will be given including the following:

- Japanese experience in CHP, chilling and desiccant systems
- 24 unit industrial CHP system operating grid independent
- Peak shaving CHP system
- Ice production using microturbine exhaust heat
- 184,000 hrs of experience using flare gas in microturbines
- Experience using absorption chillers with microturbines

Hardware suppliers present will include:

Bowman, Broad, Capstone, DY Refrigeration, Elliott Energy Systems, Mariah Energy Corporation, NiSource Energy Technologies, Meidensha Corporation, Ingersoll-Rand, Turbec, United Technologies/DTE, and Unifin International

For a copy of the agenda and registration form please e-mail Sandra Maldanado at maldonadosl@ornl.gov.

* The workshop is co-sponsored by CANDRA, the Canadian Distributed Resources Association.

(Continued from page 1)

\$7,500 a year, according to EBMUD. The projects are expected to reduce the district's on-peak and mid-peak energy use by 35 percent. The payback period on the loan for the microturbine project is 5.6 years after the units go on line and nine years for the solar system.

East Bay Business Times, December 27

Regional Office News

CRO Participates in Solar Meeting

On January 3, Bill Hui and Gary Nowakowski from the Chicago Regional Office (CRO) attended the monthly meeting of the Chicago Solar Partnership Group. Attendees included representatives of the International Brotherhood of Electrical Workers (IBEW), Chicago Public Schools, ComEd, Illinois Department of Commerce and Community Affairs (DCCA), Spire Solar, and Community Energy Cooperative. Each member of the group provided an overview of its activities and upcoming events in FY 2002. Items reported included: Completion of the Midwest Center of Green Technology in late January and the possible attendance by the Mayor in a kick-off ceremony, ongoing work by IBEW and Spire to install a 100 kW PV system in Alsip, identification of additional PV system installations, state and discretionary funding available for various solar projects, and interest by DCCA and ComEd to have CRO co-sponsor an Illinois Renewable Energy Workshop and Exhibit.

PRO Meets with Clean Air Council

Philadelphia Regional Office staff met with representatives from the Clean Air Council on January 4, 2002. The purpose of the meeting was to review the Wind Powering America priorities for 2002 and to discuss initiatives that the Clean Air Council would like to pursue, such as hosting a regional Wind Powering America Workshop aimed to increase demand and wind development in the region, conducting wind energy workshops for local zoning and code officials, and other outreach projects.

SRO Participates in Geo Conference

SRO staff participated in this all-day workshop to discuss geothermal opportunities in Nevada. The event included discussions of current barriers to development and possible remedies. Topics included access to the transmission grid, economic and power purchase issues, tax incentives, benefit analysis, knowledge base, database, geothermal technology, and an inventory or potentiality study, leasing, public land policy and access, siting and permitting, environmental and culture issues. SRO geothermal program manager Curtis Framel and Susan Norwood, OPT, presented an update on geothermal power in the Western U.S.

Calendar of Events

	JANUARY 2002				
10-11	Fundamentals of Energy Management	Dallas, TX	www.aeecenter.org/seminars		
11-13	Managing the Risks of Retail Operation	Orlando, FL	www.infocastinc.com		
14-15	Material Technologies for Fuel Cells and Power Electronics	Cocoa Beach, FL	www.ceramics.org/meetings/ECD2002/expo.asp		
17-18	The Commercialization of Energy Technologies	New York, NY	www.cbinet.com/wconnect/wc.dll?CBEvent~GetMoreInfo~PB209		
17-18	Annual Workshop on Microturbine Applications	College Park, MD	Sandra Maldonado maldonadosl@ornl.gov		
17-18	ITS-Davis Fuel Cell Vehicle Workshop	Washington, DC	www.its.ucdavis.edu/events.html		
22-23	DG Technology Seminar	Miami, FL	Lynn Miller, (618) 654-2341		
28-29	Reducing Your Energy Conference	New Orleans, LA	Stuart Steller, 781-939-2411, s.steller@cbinet.com		
28-Feb.1	Distributed Power Program Annual Review Meeting	Arlington, VA	kimberly_taylor@nrel.gov		
29-Feb.1	Reducing Your Energy Costs Conference and Exhibit	New Orleans, LA	Stuart Steller, 781-939-2411, s.steller@cbinet.com		
FEBRUARY 2002					
27-Mar 1	DistribuTECH	Miami Beach, FL	www.pennwellevents.com		
4-7	ICEPAG 2002	Newport Beach, CA	www.parcon.uci.edu/colloquium		
6-7	Fuel Cell Dynamics: Reality, Not Hype	New York, NY	www.alliedworld.com		
6-8	Fundamentals of Buying and Selling Energy	San Francisco, CA	703-243-8343, www.aeecenter.org		
11-13	NASEO 2002 Energy Outlook Conference	Washington, DC	www.naseo.org/events/default.htm		
20-21	Growing Green Power Demand	Denver, CO	www.xenergy.com/denver		
20-22	New and Emerging Technologies Conference	Tucson, AZ	www.nreca.org/edu_events/conferences/newtech/html/conference.html		
21-22	Mid-Atlantic Distributed Energy Resources Workshop	Philadelphia, PA	www.eren.doe.gov/pro/cal.html; to register: www.energetics.com/DERPhilly.html		
Feb 25- March 1	Turbine Power Systems Conference and Condition Monitoring Workshop	Galveston, TX	www.netl.doe.gov		

Calendar of Events

MARCH 2002					
7-8	Distributed Generation	South San Francisco, CA	www.aeecenter.org/seminars		
11-13	6th Annual Distributed Generation & On-Site Power Conference	Atlanta, GA	www.dist-gen.com; 508-427-9470; gesi@mediaone.net		
14-15	Fundamentals of Energy Management	Las Vegas, NV	www.aeecenter.org/seminars		
12-14	Microturbine Program Review	Fairfax, VA	Debbie Haught 202-586-2211		
17-21	EPRI's 7th Distributed Resources Conference and Expo	Dallas, TX	www.epri.com/programHigh.asp? program=238295&objid=266151		
19-21	Electric Power 2002	St. Louis, MO	www.electricpowerexpo.com		
20-23	Building Energy Conference	Medford, MA	www.nesea.org; 877-44SOLAR, ext. 20		
22	Indiana/Caterpillar CHP Workshop	Indianapolis, IN	Ethan Rogers, (317) 232-8961		
25-26	Fundamentals of Cogeneration & Onsite Generation	Philadelphia, PA	www.aeecenter.org/seminars		
27-28	GLOBALCON Energy/Facilities Management Conference & Expo	Philadelphia, PA	www.aeecenter.org/seminars		
APRIL 2002					
2-3	Implementing Renewable Energy Projects	Washington, DC	Gail Norby, 303-526-5528, gail@imaginittech.com		
3-4	The 2002 Hydrogen Investment Forum	Washington, DC	www.intertechusa.com		
15-17	EESAT 2002, Electric Energy Storage—Applications and Technologies	San Francisco, CA	www.sandia.gov/EESAT; Dr. Imre Gyuk 202-586-1482		
30-May2	Houston Energy Expo	Houston, TX	www.nesanet.org		
JUNE 2002					
2-5	Energy 2002	Palm Springs, CA	703-243-8343, www.energy2002.com		
6-7	West Coast Energy Management Congress	Anaheim, CA	703-243-8343, www.aeecenter.org		
AUGUST 2002					
18-23	Summer Study on Energy Efficiency in Buildings	Pacific Grove, CA	www.aceee.org		
	•				

*Source: Public Power Weekly, December 3, 2001